

Title (en)  
SELF-CROSSLINKING POLYURETHANE POLYMER HYBRID DISPERSION

Title (de)  
SELBSTVERNETZENDE POLYURETHAN-POLYMER-HYBRID-DISPERSION

Title (fr)  
DISPERSION HYBRIDE POLYURETHANNE-POLYMERES AUTORETICULANTE

Publication  
**EP 1151020 A1 20011107 (DE)**

Application  
**EP 99964599 A 19991217**

Priority  
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• EP 9910080 W 19991217

Abstract (en)  
[origin: US6462127B1] A self-crosslinking polyurethane polymer hybrid dispersion based on oxidatively drying polyols having a high degree of film hardness is described, which is characterized in that it contains the reaction components claimed. The advantages of the polyurethane polymer hybrid dispersion according to the invention, such as a high degree of hardness in combination with high flexibility of the tear-free films, good resistance to chemicals, high stability of the dispersions in a wide pH range, good stability in the freezing and thawing cycle and the use of economical raw materials, are achieved in a simplified synthesis pathway without subsequent chemical crosslinking, and simultaneously with a low content of organic solvent ( $\leq 4\%$  by weight) and good film formation at temperatures of  $\geq +10^\circ \text{C}$ .

IPC 1-7  
**C08F 283/00**; **C08G 18/08**; **C08G 18/36**; **C09D 175/04**

IPC 8 full level  
**C08F 283/00** (2006.01); **C08G 18/08** (2006.01); **C08G 18/12** (2006.01); **C08G 18/36** (2006.01); **C08G 18/66** (2006.01); **C09D 175/04** (2006.01); **C09D 175/06** (2006.01)

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C-Set (source: EP US)  
1. **C08G 18/12** + **C08G 18/3228**  
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